Rec'd Febr 6th

Jany 24th, 1849.

Dear Dr,

I have had this sheet for several days — waiting for time to write to you, in reply to yours of Decr 21st & Jany 5th. — By the last date you should have received some of the sheets of Pl. Fend., I sent you.

I have now set up to p. 72. (I want Stokesia especially)

I enclose Redd's list — marking 6 plants I wish most. I will send anything we have he asks for.

I enclose for you a piece of the new Sida — from Wright.

The name of the Cucif. plant I have so mundered is Sicyoidea!

I find I have Cypsanthadria no. 133 Mex. only a very little but you sent in a letter — I think after my examinations were made. I saw what I supposed to be your characters on the sheets — So — the bit I have I find is what you sent in the letter I am answering. I had it not before, unless I have misplaced it among the Mimuseæ. — Yes, there I find it, indeed, flowers inconspicuous — I over looked them. No doubt distinct. — Never mind, revise the genus in Pl. Lindh. — where the genus comes in naturally.

You will see that, by overmuch & condensing what I had put in the first sheet, I got in all your introd. to Pl. Fendl, except the references to plates. —

Halstead I believe has nearly decided to go on the Panama Rail Road survey. — I trust to get Wright attached to the Boundary survey. I have a letter from Fendler in which he expresses his willingness to go to that Salt Lake country, if he can get government protection & food, — etc. In a few days I shall write to Marcy. — send him the sheets of Pl. Fendl. — &

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make a vigorous application for this aid — No doubt I shall get it, I think. But perhaps it might be almost as well for F. to go over with a party of emigrants directly to Mormon city. But probably there will be emigrants bound for the same place, accompany the Regiment — as near as they go. Fendler can do admirably well in that region, if he pursues — But will he not take the gold-fever & leave us in the lurch? Will not living be very dear in Mormon city also? I fear it. I must leave much to your discretion. Only if you think F. has a strong tendency to gold-hunting (which few could resist) let him go. And afterwards — if he chooses to collect plants very well. He can withstand the temptation when fairly within the infected region — & we hear the Mormons have found gold also. —

The check I send is $10. from Tuckerman for Lichens & $27. from Prof. Blanchard. (I see I have not taken out the share of freight & drays I made B. pay — so that $1.60 of it I should have retained). —

There must be some mistake about Endlicher. I have not seen his name mentioned. Are you sure he is killed, or in trouble even?

I think the democrats of Vienna & Berlin have acted like fools & madmen — & have thrown away the great advantages they had for establishing liberal institutions.

I fear the Asclepias Ill. 1833 must be with Torrey who has long had mine. What are those of Lapham which I asked him to send you? It will not be until April or May that I can resume the printing of Ill. Flora. (My paper of 100 pages has cost me 6 months hard labor!!) — Shall I not (next that)

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(2) Jan. 24 '49

send back to you all your Mss & Sketches — that you may revise — And if you choose to cast them into the form of a paper for Mem. Acad. — I will print that as soon as ready — & copy your drawings on stone. It can be prettily done at bankside now. — So of Euphorbiaceae also. — Your new remarks on Loranthaceae came too late I sent it to press — as well as I could on Christmas day. I have taken pains to say little that will need to be unsaid. — You can revise all for Pl. Lindh. — with such additional information as may turn up. — Will I send back your remarks in your two last letters?

Fruit, 435 & 437 — must pass. — nothing distributed it is no matter. —

I have no parcels to return to you. Vin zat. — Hoff. — Visiting the Mennis Acad. — Pearl I send to — what's his name — at Pearl St. Nurseryman? I have little doubt that the Lieb — will do all that we ask for Fendler. Emory says you have recommended Halstead for Botanist on Boundary Survey. — Write to him in favor of Wright. — (The parcel brought by Halstead reached me last Saturday — Thro'. He has been back a month!

I conclude to send back your Mss on Phand. & — If you have got the materials you want, why not make a little paper for our memoirs — with figures like those sent — I will get them nicely done on stone & print at once. — We shall have 100 copies for distribution — Yours ever truly

Asa Gray

Share D.C. Prod. XI
(Laliatae & Plantaginaceae)

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Rec'd March 6th
Ans. March 8

Post marked Baltimore Febr 28th

February 1, 1849.

Dear Engelmann

This evening your parcel containing Gordon's plants came in — along with the proof of sheet 13. Pl. Fendlerianæ — which contained Actinella, etc. — just in time for me to add to the Actinella despecta, Fur. Ser. ined. — of Fremonti 2nd Coll. a fine B. pygmæa — which is Gordon, no. 54.

His no. 55 = Actinella acaulis.
" " 56 = A. Forsythiana. I now think but in Pl. ~~Hint.~~ Lindheim. I reported it as A. acaulis. var. —
" " 53 = Actinella (Hymenoxys) odorata.

" No. 4. Vesicaria Nuttallii, I take it. (agrees pretty well with an imperfect original specimen I have.)

" 5. V. Engelmannii.

" 79 Leucocrinum.

" 72. What is it?

" ~~65~~ Scutellaria pessima. Fur.

" 21 Astragalus Missouriensis!

12. Astragalus gracilis — (with good fruit)
15 Dalea nana. Torr.
18. Astrag. procumbens.
30 Rhustkera Fendleri — smaller broad leaved.
31, R. Missouriensis — very broad leaf
1, Sm. Clematis Virginiana Sprtt.

MISSOURI BOTANICAL GA
GEORGE ENGELMANN PAP

Feb 16. 1849

Dear E.

By last steamer. I got a letter from Harvard. — He had paid over to Torrey 18 shillings sterling for freight (from Liverpool to London) — & had received the pay from Brit. Mus. & Wm W. Taylor — He had charged them his commission — 5% — the difference in exchange in freight. — the difference in exchange in our favor makes it come out even. —

He remitted this: Brtt —

I have then to pay Fendler — from

British Museum	$32.20
W. Watson Taylor —	28.20
	$60.40

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Remittance to Lindley. $60.40
Add. for Gardner's plants to Lindl. 8.10
" " " " — 2.70
71.20
Deduct for set of
Mem. Acad. N. Sci. — 7.00
overpaid in last remittance 1.60 8.60
$62.60

which I remit. —

GARDEN PAPERS

Harvard has applied to Lindley — but he has not yet sent his check. — Webb not yet back to Paris from Rome. — Two sets sent to Switzerland. — Cash expected presently. —
Next steamer I shall probably ~~send~~ get remittance from Harvey — Hooker's St. Lomon will probably take Hooker's one set. — if ~~sent~~ it reaches me soon.
Sorry it is not here now, as on next Wednesday I have a chance to send direct to London — shall send the copies of Pl. Fendl. now all printed (Part 1) — & I trust they will bring me subscribers. — (of Pl. Fendl.)
Have you received the sheets I sent you —?
How shall I send the the Mem. Acad. &c. &c. — to you?

I have written to Marcy —
no reply yet
the Secy of State will not let a cent of the appropriation go to a botanist, or the

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Alex. Boulay sends. Emory has been here — made a good arrangement to take Wright as assistant computer (nominally) But the Sec. State vetoed it.

Hand not Fendler letter go at once with the earliest party of emigrants who go direct by Mormon settlement. — He ought to reap a fine harvest there. Times will be better. — & as the Study & publishing the plants as I have begun they will be raised in value, & will be in demand. — The Landin des Plantes will subscribe — I think. —

There are some typographical errors in the Pl. Fendl. published. I will correct with a pen in the extra copies — of which I have a good supply — & which will cost Fendler or us nothing. —

In great haste —

Yours ever —

Will write soon again.

A. Gray

Rec'd March 16th
Ans March 23d

Cambridge Feby 24, 1849

Dear Engelmann

You owe me one or two letters. — all in good time.

Mr. Lowell has been asking after Fendler, and has sometimes starts — expressing great expectations from the Botany of Great Salt Lake & that region drawn up in Fendler's beautiful specimens.

I sent the Pl. Fendl. (all marked to you that is marked) yesterday to the hand of a young friend to Marcy at Washington, with a letter asking for not only transportation but protection — but rations also for Fendler — I have an early note in reply that Marcy was sick — but the Chief Clerk offered to lay it before him next day — the Clerk said tomorrow,

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that it would not be in the Secretary's power to grant rations.

Protection & transportation we will have, out of this or the incoming administration; — and it can be spent on location. At Mormon City it will not need it, and his summer work will be in that neighborhood.

If Handler goes at all, he must decide whether he will go with the troops by the Platte, and find his way to his scene of operations as he can, — or join some band of emigrants who take a southern route — so as to bring him to his station.

In either case, you can draw on Mr. Lowell for $200; and when on the ground he can readily draw, as he needs, on you at St. Louis, or Mr. Lowell at Boston.

I am waiting for the set of plants (his own collection): I have offended to

St. Leman. London — who will probably state it. Bennett. of

~~Now another~~

British Museum speaks most highly of Fendl. Platts — Swartz — same from the same or like reports — regrets his sets did not hold out better — so many revs. missing.

By the steamer now due at Boston I shall probably get pay for set sent to Harvey. —

Now another matter, briefly. —

The Secy of State & the Commissioner have behaved most shabbily. — Wright cannot go on the Mex. Boundary Survey.

Lowell, Greene, & I have got up an expedition for him that will do as well, — & in which he is going right off. — to Texas, in time if possible to join the troops which Gen. Worth is sending to El Paso del Norte by new route

directly across from Fredriesburg — if not get across by best chance he can, Pitamise on the Rio del Norte & especially in the mountains right west & S. W. this summer — winter or go down to Chihuahua — attack to Texas — & another year try again — perhaps get up to Fort & the mountains there — or go further west towards Calif. along the boundary line.

Find out who is to command the troops at El Paso — and if you know him write to command Wright to his care. — Or if any troops you know going to N. Mexico.

Any instructions you wish to give Wright about bacteria etc — write to him at Austin. I care not Col. Blaisdone Kyle. He will get letter. The two points we may now occupy are the two best foci in N. America — to work from. I hope much maybe good now. — In haste

Yours ever
A Gray

By this time you should have the check in my letter of Feby 16 —

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Sunday Evening
25. Febr. 1849.

Dear C.

I have just received from the Secretary of War — Mr. Marcy — and enclose to you, what I think will procure all the facilities that Fendler can wish from U. S. Troops. If, as I was informed the Sect. has no right to issue an order for rations to F. — he has certainly done the best thing by issuing a recommendation which will (if the Commander is favorably disposed) enable him to give all, without any order — Indeed I think we could ask nothing better. —

Now another matter. —

over —

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and encourage him to afford all compatible facilities to Wright.
Write to Wright by him. If you have particular instructions to give about collections in Southern N. Mexico — what are the most interesting districts, &c —

I remain
Very faithfully
Yours
A. Gray

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P.S. I shall mail to Major Fendrick a copy of Pl. Fendlerianae

A. G.

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July 25 - '40

If you have a spare copy
of Wislizenus' map
please send it to Mr. Wright.
(Send by Major Kendrick)

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Miss
Bota
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GEORGE ENGELMANN PAPERS

Recd March 26th
Ans March 28

Cambridge 13. March 1869

Dear E.

It is long since I heard from you. I have been retaining this — the amount I received for Lindley's set of Fendler's plants, till I should get that for the set (Oakes) sent to Haney — which I learn he has paid over to Dr. Brott. But now it will not come till next steamer.

Is Fendler off yet? Yours truly

A. Gray

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Recd. April 5th.
Ans. April 21

Cambridge. March 24th. 1849.

My dear Doctor,

I received your letter of March 4th. a day or two ago, & this morning yours of the 8th. How my letter of Feb. 16th. came to be post-marked Baltimore, I cannot imagine -

On Febuary 25th. I received from Washington letters from the Secretary of War to the Capt. of the mounted riflemen, recommending Fendler to his protection, &c. which I at once forwarded to you, with a letter in which I told you that Mr. Lowell would honour your draft for $200. for Fendler, in case he followed up the plan of going to the Great Salt Lake. — And March 10th. I again forwarded to you for Fendler, another remittance of $33.60 for Lindley's set. - The particulars of the account with Fendler I will send in my next, & clear up all your queries.

The sheets of Plantæ Fendlerianæ have all been forwarded to you long since, also a complete copy; & a few days since I forwarded another, & one for Fendler.

Mr. Lowell has always felt the greatest interest in the Expedition to the Salt Lake & great willingness to subscribe for it, but has always strongly objected to the California plan - And as one had received the papers

from Government & your last letters pointed that
I was I supposed that the Mormon Expedition was
agreed upon & therefore forwarded to you Mr. Nuttall's
draft on Durand & Mr. Lowell's authority for his
draft.

But as Fendler seems to have set his heart on
California I suppose that must be given up - But
I do not think Mr. Lowell will be willing to advance
anything for going there - For when a combination of
the two was proposed, he objected to it, & earnestly
hoped Fendler would not be seized with the gold fever.
But as Fendler is determined to go & dig gold, & seems
an enterprising man, it is about the best thing he can
do; for he must needs, with energy, certainly make
more at it than he ever can with plant-gathering -
So probably he had better go - But I do not see that
in that case he can use Mr. Lowell's draft or Nuttall's;
they must be reserved for Wright, if afterwards he
should attend this expedition to the Salt Lake -

I am the more sorry the expedition must need,
be given up, because Hooker in one of the last Jours.
of Botany again notices Fendler's plants & recommends
them to Subscribers, & also recommends to them his
new expedition to the great Salt Lake, which he
mentions —

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I have taken another set of Fendler's plants myself for a correspondent, valued at $26.00, & for which I will account in my next remittance. I should be very glad to help you if I could in advancing money, but at present I am ~~rather~~ much behind hand myself; the General has eaten up all I can lay my hands on, & as yet I have only received the half that it cost; & a second volume is in preparation, with all the contingent expenses. But if you can raise enough to get Fendler off he can from a distance draw either on St. Louis or Boston & by that time foreign receipts will be coming in – The next steamer will bring Harvey's remittance for Oakes' set – or if he will collect a set of plants on his way out & send those on with them in my hand I can apply to Dr. Lowell. But as he has lately advanced for Wright's journeys, & been laying out a good deal in other ways for the science it is like urging a willing horse – Especially after the disappointment & the giving up the Expedition

Wright is just off for Texas, trying to overtake Gen. Worth's or some of his people, & going from Texas through to El Paso; the plan is to keep him about there a year or two, & then, perhaps, we can get him across to the Salt Lake

I hope you have seen Major Kendrick & given him instructions –

I have been hard at work 6 months on Plantae Fendlerianae, & if my time had not been so engrossed by that, I might have been doing something, that would perhaps have enabled me to help advance money for Fendler. But I think I have about done my share.

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As to Acl. & Euph. I would do them as you first proposed. Fendler's own set is to be offered to Lemaire, London. not Lehman, Hamburg.

The Phil. Acad. doesn't buys anything, & I shall not wait to offer it to them.

To-day I shall enquire in Boston about goods going to St. Louis – Gordon's set & the package by Holsted have been acknowledged. Money for Lowell's & mine received & forwarded, as see by my later letters –

I have long since got back all Fyer's sets from Riley in New York; but have never heard any ~~thing~~ of the London ones – I will try & get an account from Riley. The $24.60 due Mr. Lowell, may run on toward Californian plants hereafter –

I distribute H. Fendl. to all the Subscribers & botanists. Tell me how I shall address a lot of copies to send to Braun, (PS – I will send my Pring, Havanas) & to whose care at Bremen – I save up a quantity to bind together with the 2nd. part, as a thin volume, if you add the Acl. & Euph.

~~If you add~~ I will look at your Commandra –

Wright will be on the best part of Emory's route.

Q. Missouriensis & macrocarpa are distinct, I believe; I have both growing, both differing in certain states –

Torrey long since shewed that true Cleomella Mexicana was different from our Texan; we have known the three sp. two from Coulter. I believe Torrey has given name.

Thanks for the determinations about ferns, which I will save up.

Yours ever truly

Asa Gray

2 to Braun & 2 copies – for the Geol. Reg. Lib. Faculty. Assembly. Prof. of Botany

Rec'd April 28th

Dr. Geo. Engelmann

Boston 10 April 1849

Dear Sir,

I have received your letter of 30 March advising me of a draft of $200. on account of Fendler's new expedition – which has been paid –

Dr. Gray mentioned sometime since that you wished for specimens of some of our New England plants – If you will send me a list of what you are deficient in, I will with pleasure send them to you, so far as my duplicates will allow –

Yr truly & respectfully

A. Gowell

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Dr. George Engelmann

St. Louis

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Recd May 10th
Ans May 12

Cambridge. 28th ~~March~~ April 1849.

My Dear Doctor.

Your last was of the 28th March — a month ago — and was duly received. — Since I have a very pleasant and sensible letter from Major Kendrick — for all that goes well. —

I was glad to learn that Fendler had at last made up his mind for Mormondom — that is, I am glad if he will be contented. For it was natural he should take the California fever. & I would not dissuade him from that undertaking — as I wrote in my last. — I trust he is now on his way, under favorable auspices — Mr. Lowell tells me he has paid the draft in his favor for $200.

I have since received the pay from Harvey (Oakes's set, at first) — $31.20
For which he had added 10/ for the bonfarse — 2.50
(One good one viz. Hydrums. he says — the rest) $33.70
like most of these spirit in diving once cannot —
This $33.70 — I will probably remit, or you may draw for it.

As to Lindley's I sent all I received viz. $32.16. — Before he I suppose Harvard deducted a commission — charged his commission to the purchaser —

He will, of course communicate exchange our plants got by diff. collectors. Wright is in Texas, by this time, — in team to join Mathis's party across to El Paso —

I have been expecting your box by Express containing the full set of Hendler Plants (this our set — with plants & seeds from Lindheimer you spoke of (time they were here.) I want to send on the Hendler set to London — not to Dr. Lehman though — viz Dr. Lehman of London (a diff person from Prof Lehmann of Hamburgh) — — who after all, on my sending him Pl. Lindh. & telling him (as he would not take one of the sets on sale in London but wanted a fuller one) that I would send him this full one for about $100 — ~~declined~~ wrote me a rather shabby letter declining. But Booth later wrote me that if I would send on right away Mr. Brown would take it for the British Museum; for I want it much — & wish it were here to go by this next steamer. —

In my haste, & multitude of business I have shabbily neglected to send the copies of Pl. Fendl. to Hamburgh for Braun. And now the Danes have blockaded ~~the~~ the Elbe. — But I will send 12 I have laid out (it makes a heavy bundle) either by Seebeck steamer to Bremen (I wish I had some one to address to there.) or in a box for Paris. Intended to — I am about to consign (memoirs of Academy) to Delaroche Delessert &c. ~~Hasse~~ — & advise Braun by a letter. Would not the latter be best?

I have inquired for a chance to get my packages on board for you into boxes of goods for St. Louis — but

without success. The Cotton men send only whole cases — ready packed at the mills —

I think I shall now send the smaller things by Express — & retain the 3 vols of Memoirs for some opportunity less expensive —

I immediately mailed a 2d complete copy of Pl. Fendl. for you — Hope you will get it in some time. The Pail-road all the way to St. Louis.

If I had your paper on Euphorbia & Asclepiad. I would put it to press at once in Memoirs. — & engrave your figures.

I am crowded — overwhelmed — with work. But College-work will be over in July. & 2d Vol. of Genera — which I am now hard at work on — will soon be ~~off my~~ printed off. — a week more & I shall have finished the copy! —

I must then work at Explor. Expedi. (Compositæ) & Fendl. & (when ~~your~~ the sets arrive) also at Lindheimer's — if you wish — (I have made a genus of the Texan Rue — between Ruta & Asplosphyrum) — viz. Rutosma. — I think there are some good remarks you will like in the 2d Vol. of Genera —

I foresee an unusual good chance to get rid of College work a year hence — & must therefore try to overhaul the Expl. Expedi. Plants — so as to get them into some shape — & next year (May or April) go abroad with them — set down in London & Paris, & work them off, & Lindheimer. —

I will then draw up subscribers for Fendler

— I want you to help me a little about Trees — our native trees up to Cornus inclusive — for this year — for the Report I have promised the Smithsonian Institution

I wish I had a good assistant, – one who could work at Botany. Perhaps I can find one abroad.

In haste Yours truly

A. Gray

George Engelmann
St. Louis
Missouri

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Ap 28 1879

Queries about Polyspeti – Exoferus Trees –

What Magnolias have you in Missouri?
How far west do they go?
Liriodendron – How far West?
Rhus typhina – glabra – Vernata – with you? common?
Tilia. What kinds – I want fl. & fruiting specimens of all but T. Americana –
Acer. Compare A. saccharinum with A. nigrum.
Are both with you?
A. rubrum – the remarkable varieties wanted
Æsculus – what with you? I want fresh fruit of Æ. flava.
Zizyphus (Rhamnus) Caroliniana, with you? tree?
Prunus Chicasa – Will you post me some plums in spirit – & mark the color. –
Crataegus – fruits in spirits – & foliage of all species wanted much.
Cornus asperifolia – fruit wanted. –

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Forward

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Rec'd May 13th
Ans May 13th

Cambridge - May 2?, 1849.

Dear Dr.

Your box came just as fast as your letter of the 19th. Both reached me to-day. I have not yet opened the box; shall to-morrow.* - Pity it did not come 2 days earlier - ~~to be despatched by steamer~~ I was to send by steamer of to-day the seed to Walter & the parcel of Fendler's plants to Brown. - will send by next steamer.

I trust Fendler will do finely.

I saw by a slip in a newspaper that Col. Stevt is to send a party to explore valley of Great Salt Lake, under Capt. Stansbury. I have written to Washington to enquire - & to say that Fendler should be attached to any such party.

Why did you not give me Mr. Northrop's address? I have sent Pl. Fend. to the same of the names you mention - I will do the same. I had 250 extra copies - but only 100 more copies.

Some copy (nearly done - I will send you 2 or 3) - saving the rest till the 2d part is printed off - then put up as a vol, it will cost $3.75 - about the same as for a pamphlet

But what I want to write (mail) you about to-night is this. – I send you 3 fasc. of Linnaea for 1848. – (they belong to Sullivant. Send to him as soon as you are done with them) by which you will see that one Schwede has been getting hold of Lindheimer's yet undistributed coll. of plants, and has been playing the dence with them. His names must be thrown away and see your remarks – Some he has hit well, & anticipated names I have in print – as Abutilon hetrosericum, which in sheet of Geraea printed off I had called A. velutinum. – His Paliurus is a Zizyphus, etc.

How came Lindheimer to send them? I do not care how many of the species any body describes, but I do not want to have them published on both sides of the Atlantic under diff.t names –

I have only got the Linnaeis to-night & put up set (of Sullivant's) for you – without looking it over. ~~Approx~~ Please notify me of the safe arrival of the Linnaeis –

I write three or four days

Yours very truly

A. Gray

yo –

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Rec'd June 1st
Ans Aug 6th

Cambridge 23d May 1849.

Dear Doctor

I have your two letters of 12 & 13 May. — If you have not yet sent off the Linnaeus to Sullivant you need not. — for Sullivant is coming on the 1st June & will call for the Linn. I saw a paragraph in paper about Standing's exped. & immediately wrote to Prof. Henry at Washington to request Col. Abert to have Fendler attached — Henry said he thought it would be done. Standing has probably not taken him by this time. I doubtless you have arranged with him to take Fendler up. — He can probably sell his outfit, or Standing will take it for use of U. S. — & pay him the cost. — This all looks well. Truly St. Louis is a great focus, — the starting point for the whole western world. — All you want is a rail-road to Boston. Mayfield preserve you from chickens. —

We must publish Lindheimer's Plants. I hoped to have a numbered ~~set~~ distributed set to compare as I work on them: for I fear I have got the nos. in confusion — as to order. — Of course each specimen is kept with its own ticket. But I

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how the nos. of distribution run: clearly.
As soon as you will furnish me with what
you have done & will do. I will have them
in hand up to the end of Compositae at any rate.
I have just ~~done~~ written the last on Gen.
Ill. vol. 2. a great job. Now or
3 of the plants in it Schultz has got. —
but not well. His Paliurus Texanus = my
Zizyphus Mauritiana. — His Malva aurantiaca
= my Malvastrum Mightii. Abutilon ~~&c~~
Parvica he has anticipated. —
Thanks for your notes on trees. —
I must now work partly on Expl. Expd.
plants — bottleg — work will be little after
middle of June. — I'll not be idle. —
Agassiz is sending to Braun via Hare.
To him I have given a parcel containing 12 copies
of Pl. Fendl. & 3 or 4 others addressed to Bischoff & the other
botanists you mentioned. Please advise him. Endlicher
is gone. died the beginning of March of a sudden illness.
I have written to Silliman for your bill which I
shall pay, & remit to you any balance in my hands —
Fendler's own set has gone, I suppose you know, to the
British Museum. I hope to get pay for it very soon.
The collections made this season, we must publish up very
promptly. In haste — Yours ever.
A. Gray

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X

Engelmann

St. Louis,

Missouri

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Rec^d Sept 7th
Ans Sept 26.

Cambridge. 28 August 1849.

My Dear Doctor

I congratulate you on getting through with the cholera - and rejoice at your preservation. It is long since I have written - being so busy myself, & knowing how much occupied you were - The last fortnight has been lost to botany, by the Scientific meeting here - (interesting though - I will send you the proceedings when printed off). Prof. Henry, the Secretary of the Smithsonian - President of the meeting, and my good friend has been staying with us till yesterday. He will take interest in our Scientific operations. He heard with much interest that part of your letter that related to the misfortune of Fendler (as also from Wright, who is having a hard time on the way to El Paso), and will render efficient aid, by subscribing $150, or at least $100 to his Salt Lake Exped. payable after Jany 1. 1850. & probably continue such subscription for two or three years, - if needed. He will wish the account of the plants of this Exped. to be published in the Smithsonian Contributions. He will publish a Manual for Observers & Collectors -

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get up by a number of persons, who will write the diff
departments.

I have not yet seen Mr. Lowell to read to
him the account of poor Hawkes's losses & your
plans, which seem to be judicious

I have not yet heard from the set Hawkes sent
sent to Brown pr Brit. Mus. But if I do not hear
by next steamer - (in answer to my message lately sent)
I shall write a very scolding letter to Bott & Barnett
& have it read to Brown. Have the plants returned
(for Smithsonian Inst.) & the money sent quam
primum. It is full time that Howard
had got proceeds from Webb. & the ~~Swiss coll-~~
~~ections~~ be sent to Switzerland.

I have been overhauling my accounts in the matter
and on sheet enclosed send statement.
From which it
appears that I owe you $70.98. This sum I sent
to-day to J. Kinnan at Newport

Last week Kinnan sent me word to ~~have~~ send any
thing for you to Dan. K. Chase - the very next day
I sent - but he gave no address - could not find the
name in the Directory - & poor was obliged to
take the alternative he gave and send to Newport to
Spies, Ehrett & Co. - which I did - advising him
by mail. The parcels were two. - one contained the

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3 vols. Memoirs Amer. acad, for which I paid $7. or. The other, Compositæ Gayanæ, — Pl. Vinzentianæ, & the part of Pl. Fendler — ~~that~~ last from your Herb=, that were studied — New Genera Illustrata. Vol. II — from Mr. Lowell. I paid expenses to Newburyport, & hope they will safely reach you.

Dana of Newburyport has to pay $10 due — & I have to pay $10 for you for Gillman Journal, last year & this. I meant to have attended to this ~~&c~~ so that it could come into ~~this~~ account sooner. — When paid I will send you ~~the~~ receipt.

Many of your plants in flower. Talinum calycinum by side of T. teretifolium — quite distinct. — Alsinia Kerguesiana (which I think is not a true Alsinia — will see soon) Cosmidium gracile, etc. etc —

Take up Hooker's Compositæ before returning them. Study them this autumn. Lowell & I will take the plants from Gregg you speak of, & divide them; sharing the cost. Lowell to pay $10. for hundred —

I wish you would send on Lowell's set of Lindheimer plants — as far as laid out — Mine have got so dis= arranged & part distributed into my herbarium & part not — that I can hardly make sure of noticing all without a set to go by like that.

You do up the asclepiadeæ &c — for Lindh. & Fendl. My work has got on slow as yet. Not got through with first study of Compositæ of Ex. Exped. yet.

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have got to work hard enough yet! Very much to do that is pressing.

I have none of the Portulacas of Lindh. you write of P. pleurospala – maculata – lanceolata. – Lindheimer I have flowered finely this year & last – A fine Ballianda – (Gregg or Wislizenus?) very showy, is now in flower.

Bd. Abert is a selfish, shallow fellow (Henry says as much) and Stansbury another, no doubt. Henry will go directly to the Secretary of War, for help hereafter and through him, we can I hope get some needful facilities from Washington. But we must be as independent of Government as we can –

Great place, St. Louis, no doubt.

As to Agassiz, I have not spoken of him, because I have not had time to write you half what I wanted to even of Botany. But I will say that A. & I always get on perfectly well – tho' perhaps we might not if we worked in the same field: yet one who understands his impulsive character aught to have little or no difficulty. – We continue intimate friends, & he remains very popular here.

If you can have Asclepiadeae &c. ready as a memoir I can publish them in present vol. of Academy Arts & Sciences.

In Smithsonian Contrib. Henry will give plates – as many as ~~you need~~ we need for Hendley. Might do so hereafter. Have you a set of Lindheimer Texan Plants &c. as full as possible for Smithsonian Institution.

In haste, truly thine – Asa Gray.

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Dear Sir,

To save you the trouble of answering my note this morning about the Texan Compositæ, it is Lindheimera Texana described in Hum. Bead. Memoirs — I particularly noticed that the achenia of the ray were carinated along the inner surface & the carina produced into a reflexed process —

Yours truly

A A Gray

Friday morn

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Boston, Oct. 12. 1849

My dear Sir,

I return Dr. Engelmann's letter — I pray that no demand may ever be made on Fendler, nor anything deducted from his remittances on my account. I shall be glad, however, to receive a share of his new collection.

~~I return you note defaced.~~

Some of the seeds from Engelmann have vegetated with me. A solanum with prickly calyx investing the berry; one of the Chenopodea, probably Kochia with a round disk under the calyx — some portulaccas very like olenaceae — a composite flower, with 4 or 5 yellow rays, which are fertile — the achenia compressed, winged & two awned — the disk

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flowers with a new coronigera perhaps & perhaps sterile — I have had no time to look them up. —

Yours truly

A. Lowe

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Recd Oct. 12th
Ans Oct 26

Cambridge, Oct. 1. 1849.

My Dear Doctor

You surely must have my last letter, in which I presented a statement of account of Fendler plants — and told you I had remitted to Geo. P. Putnam 155. Broadway. Newyork, the sum of $70 $\frac{98}{100}$, payable to Th. Kinnan, or order. & I wrote to him to Newyork (missing him at Boston — as I explained) telling him to call on Mr. Putnam for the money. I did this because I could not be sure that my letter would reach him at Newyork. I now fear it did not: for Putnam wrote me some while ago that the money was still uncalled for. Mr. Kinnan can draw on Mr. Putnam for it, (George P. Putnam, Publisher) at sight, which will be the readiest way for you to get it — and doubtless will pay over the sum to you.

I long to hear that Fendler is on his way back. Not having seen Mr. Lowell I have not yet informed him of Fendler's mishaps. I will when I see him. I told you that ~~Mr.~~ Prof. Henry had agreed to appropriate a sum towards Fendler's explorations, after January next. That, with Mr. Lowell's most very satisfactory — & what we may get from abroad should keep him in the field for the present. Last Steamer Dr. Boott wrote me that Brown was in Scotland —

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having run from London for fear of the cholera.
— He will get my request on his return — and I shall write again — to him directly for the sum due to Fendler — stating the great need for it.

Have you got the packages, sent to Spies Christ Hor Nordstrk, as Mr. K. directed — and how do you like the 25 Vol. of Gaudin Illustrated?

I now work a part of the time at Lindlay Fam Plants — beginning with the Compositae — & will go back over the families of Polypetala which you do not yourself work up. & then on with the rest. I know not how you have arranged the revis for distribution. and want a set much to aid me — hope Mr. Lowell's is in the way for that purpose. Shall I take them up all in a regular series, & cite the distributed nos. in brackets, as in Pl. Fendl. after the beginning of Compositae.

I think, also, I have some of the printed form of tickets except for 1845 etc. (a batch of tickets you sent on separately) — & for the 1847-8 — I should like to do up & print all those.

Let me have news of you —
Yours.
I have no botanical news of interest —
Yrs truly —

A Gray

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Herbarium
Geo. Engelmann
Alsmani

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Rec'd Octob 26th
Ans same day

Cambridge, 13th Oct. 1849.

Dear Engelmann.

Receiving yours of the 25th, I went into town as soon as I could to have before Mr. Lowell — Not finding him in, I left it, with your former one — and received in return, the enclosed, written in his unusual laconic style.

I think it would be well to present him — not only with a set or more of Fendler gathered on the Plains — but also with a set of Gregg which you spoke of. — For more I will willingly pay a large part of expenses they incurred on them.

I have fixed up the Compositae of Lindheimer collections (the only one absolutely new now is 628 (1847-8) = Keerlia effusa. — quite interesting one, showing aff. to Chaetopappa.) & I am now working — some every day — at the Polypetala — Let me know what families, besides bacta you will elaborate that I need not work over them. When I get one of the sets I can regulate the numbers — which I cannot arrange till then.

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I imagine that Philadelphia furnishes better medical schools than ours — and that it is perhaps cheaper living there.

Very much interested in what you say of hybrid oaks. —

I raised only ~~Portulaca~~ Talinum calycinum — which scarcely flowered before I had to take it up — will flower this winter. I had it beside of T. teretifolium — it looked very different. T. parviflorum I had not. What do you call the Texan one prostrate — with obovate-lanceolate leaves? No more of Schule.

Let us have our Lindheimer's plants as soon as we can. —

In haste Yours truly

A Gray

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Dr. George Engelmann

St. Louis

Missouri.

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Rec'd Nov 8th
Ans Nov 14 Engelmann.

Cambridge Oct 30
1849

No. 412. (1845) Victoria — a tomentose Malvaceous plant, only poor flower-buds & no fruit. Tell me the structure of its pistil, or send a flower — or a young fruit — if any.

Is it Malvastrum? Sida? or Abutilon?

Portulacaceae — I leave for you to finish

Send descriptions. —

Your P. oleraceoides (is that the name?) I did not raise, but Mr. Lowell did. & has just furnished me with poor live plants. W. like my wild specimens from Texas, Mexico. — is really distinct from P. oleracea — by leaves perhaps more narrow. — the calyx circumscissile so as to leave a saucer-shaped border around the ~~capsule~~ top of the capsule. & the much more muricate seeds. —

Linum Berlandieri — In what vol. Where is 581 (1847-8)?

Rosiglossum, or Sphaeralcea

579 Tilia americana

Lin. 461. 1845, shows stipular glands. Sedgfield Oxalis Berlandieri shows traces of glands

Send a good set of Pl. Lindheimeriae to me (soon) for Prof. Harvey for Dublin University Museum,

"Vitis inspectus, Schule. you refer to 358 [= 493, 98], which is V. aestivalis. But you must mean 357 = V. bipinnatifolia Linds. – for Schule says the leaves are perfectly glabrous and the berries "erbsengrosse" – as large as peas, only.

I despatch this – without having time to write more at present. – Have you yet got the proceeds of my remittance to Putnam & Nichols for Kinnan?

Prof. Harvey of Dublin, the algologist &c, and a fine-hearted man, is now with me for a while. Yours cordially

A. Gray

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Engelmann
Geo. Louis
Milleman

CAMBRIDGE MASS.
OCT 30 1903

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Rec'd Nov 17
Ans Dec 17

November 7th 1849 –

I have yours of Oct. 26, yesterday, thanks for the remarks on the oaks, — I ~~want for~~ want those plants of Gregg, which I am at work at Lindheimer – Hope to get them soon.

The Parrnia cultivated – both this year flank made smaller flowers than the wild specimens, but is the same:

The Aruda is my A. hastata, – cult. this year from Texan seed it made as large flowers as the same species from Hovey's Garden seed, and is every way the same,

The other fragment returned = some Symphori= carpus, evidently.

Where were Gregg's (new) plants collected. ~~We shall~~ We shall have to pay back the $100 to Nuttall, I fear, unless Fendler showed go to Salt Lake. I don't care whether he does – sale of plants is so slow.. I mean to take the best set of the Fendler now on hand, here – & give it to Bentham – (who says he is too poor to buy plants!!) – will remit the amount if I do.

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Send me a goodly number of blanks of Pl. Lindh. as you propose — I often have two plants which will occur under the same number.

Give me copy for Portulacaceæ — I have cultivated the Talinum you speak of prostrate —

I have the Flaveria ~~elo~~ chlorefolia from Rio Grande, Wright — So you need not send back to me your specimen — as you kindly propose — I think I took a bit from it.

Now as to your letter. The Boston P.M. says it does not rest there. — that it is either in the St. Louis office — or is one of a few which (although unpaid) he sent forward about that date, — losing the Amer. postage to save disappointment. —

Now as to Schwele. After wading thro' him up to Sepium one — following your steps. I to-day got two more nos. — with more abominable stuff of the same kind. — more Compositæ too — all wrong. Fortunately all preoccupied, I believe. Your ~~Scrophularia~~ Euphorbiaceæ too, ~~I believe~~.

I send you Sullivant's copy. Return to S. when you are (by mail — with this)

Engelmann

Indigofera Lindheimeriana. Scheele = L. Amé B. &c.
which I have from Texas. Wright. - also S. Carolina.

Eysenhardtia. Except that the Texan has the style less curved at the apex. I can see no real difference. I find the vexillum often emarginate.

I have appended the characters of your E. Spinosa.

Is the Eng. version not different from both.

380 I do not like the name "Cassia Vespertilio" - for this - not very applicable - so I call it C. Lindheimeri. I have long had it from Wright too. -

124 Nictitans N. Mex. = one of Gray's - Gray's - also from Rio Grande, Wright. = C. bauhinioides. n. sp.

412 (1847) "Cassia unifoliata" name preoccupied. - I call it C. pumilio. - I have it better from Wright.

Give your determinations. I think I will send to Schlechtendal a list of real names by & ask him to side of Schel's abortions. - & admit no more of it into Linnaea.

Gave with it.

I write in the midst of a great jabber on every side. - very much distracted

Send on the Prairie Plants of Fendler for Lowell, of course. -

In haste. Yours very truly

A. Gray

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Rec'd Dec 17th
Ans Dec 21

Cambridge, Decr. 6, 1849.

Dear Engelmann.

The box by Express reached me at length — to-day — $10.50 charges to Cambridge — never mind, I will get part from Lowell. (Lowell is sick now, but is getting better — I will see him soon.)

Other things have prevented me from getting on farther with Lindheimer's Tex. Pl. since I last wrote you. I have to-morrow to examine Malvacea 412, but suppose it an Abutilon, — I think these dorsal-truncate stigmas are not rare — in the bud. I have gone through to end of Onagraceæ — having already done Compositæ — have hereafter to look over those last to adduce some new syn. in the Linnæan — such as making a new genus of Habenaria Scheeles Cusc posteriores — a new sp. of Engelmannia — etc. — Tepana — a new sp. of Portulacaceæ, & of Bactæ

I now only want your MSS. of Portulacaceæ, & of Bactæ — & will collate & set numbers right, & then print it as far as done — if Nat. Hist. Society are ready. I must then stop a little. At least I must work evenings at the new ed. of Just Bot. for the Report on Trees. — But will try to go on with the Fendler & Lindh. Manuscript. Families together. — & soon Wrights coll. maybe here, for he is on his way back from El Paso. — Greggs things — so far as we notice — then may come in along with Wrights best. — The pro forma of Lindheimer, Engm. does not allow so much room & the Bost. Society cannot give unlimited space, as will Academy — & Smithsonian. Besides the Plantæ Nightianæ may have some plates, as Henry will pay the expense. I shall of course send Portulac. bactaceæ & Fendler accompany all your pets to you. — I feel discouraged with the amount of work on my hands — winter coming on, & so little —

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almost nothing done yet.

I wish you could see my notes Lindl. before they are printed. — But they are bulky — on thick paper — & written in my open hand to be plain for the printer. — So I see not how they can be transmitted to you. Thanks for the acorns & the fine specimens of oaks — so instructive. — Those for Walker will go soon.

Mr Dexter Lowell will willingly pay $30 for the Gregg Plants, if you choose — I will take a large part of the charges on me from St. Louis to Boston. —

Shall I collect of Lowell for you — or have you funds of this yet in your hands. — Let me know, and I will act accordingly. — If we could, it would be well to present them to L. —

I sounded Lowell, & find he would still be willing to patronize Fendler — for another trial. He could get no more from Nuttall, I fear; but could then not have to refund the $100. — From Smithsonian I could get $100 this year & 100 next.

I have written a very strong letter to Brown — (who was in Ireland at last accounts) to stand on the cask for Fendler — I think he can neglect no longer — but he is a slow & indolent old sinner.

I have just taken one of the two sets of Pl. Fendl. still left me on sale — 200 specimens & given it to Nuttall — tho' I can very ill afford it — (You may draw on me for the amount $20 — or wait, as you please, till I get from British Museum & then I will remit all together.

I send your Receipt for Illinois Journal — 2 years 1848–9 $10.00 — which I have paid. If you would be satisfied let it go against two sets of Geyer's Illinois collection, which I have taken & given to correspondents on the continent. —

Yours ever.

A Gray

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Engelmann

Acacia Roemeriana — must be 409, 604, 387 (olim 386) — and Schede wrong as to the "flores nosci". In other respects it agrees. — I half suspect that it is actually described from Lindheimer's own specimens.

Send along a pretty good set of Lindheimer's plants — which I will buy, & give to Bentham, whom I wish to gratify for good reasons. — She says he is now unable to buy any plants.

The names on the labels, — such as "Oenothera serrulata var. pinnatifida" &c — are they yours or Lindheimer's?

595

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Dec 7. 1849.

Dear E.

I was wrong last night in saying to you that 412 was probably an ~~Opt~~ Abutilon — It is no doubt a Phymatocera.

Kunth — in Sp. nov. Humb. Bond — = in Ann. Sci. nat. Mr. 1849 — pos 2 Salvia from Tex. Engelmann — 2

S. spatulamoides. — (§ Eusphace) Corolla violacea. 16 lin. longa.

S. amabilis — (§ Eriantha) 4. Calycibus mollibus pubentibus, limbo villoso fimbriato. Corolla azurea.

(an. S. pitcheri!)

What are they? K

Also a Veronica pulchella — Fruticosa, erecta — et. = V. Engelmannii, I think.

Is it Phoradendron

Viscum 100 (1846) & 523 (1845) flavescens? or P. obiculatum?

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Decr. 14, 1849.–

Dear C. I have now collated with Lowell's set through the Compositae – & enclose a schedule as they stand – for printer. – Note that the proper series – has the regular numbers. as 319 – to 448.

Those of later coll. I intercalate in ( ) –
also those of former publication when redistributed. ( )
Those not distributed which I have occasion to mention are merely marked +

Please send localities &c – of those of later coll. marked ( ), as of many I have no indication of it.

Also send Portulacaceae –

Yours in haste

A. Gray

(Mr. J. Hall Johnson)

Mr. Henry A. Ware

Care of Mr. Lea Zenos

Philadelphia – Pennsylvania – U.S.

= N. Carolina, Mt. Mitchell.

Lewis Mo (1850) & 7-23 (1847)

Mr. J. Hall Johnson?

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Rec Dec 26th
Ans Jan 23d & 30th

Cotuit Dec 15.

Cambridge Decr 12. 1869

If you will now send Portulacea — Lythracea — I can now ready Cactacea to print from Ranunculacea to Compositæ, inclusive. And I hope to be through the rest of Monopetalæ by the time the printer is upon me — I am to write to day to the Pub. Com. of the Bost. Nat. Hist. Soc. — to see if they are ready to print now. I want the localities of the plants as far as distributed to Lowell, Wpasc. IV. For I do not like to separate the plants of each family into 2 sets. — ~~It will be less~~ If Scattes my remarks &c. too much. — It will be less trouble to intercalate the higher numbers as we go on as say

325. Vesicaria Engelmannii.
(576). V. Engelmannii β. elatior, racemo fructifero extenso
(3-4-pollicari). V. pulchella, Kunth & Bouché — etc. —
And any not ~~mentioned~~ distributed we will put either in notes at bottom — or sketch in their place with a + instead of a no. —

I am this morning to collate my MS. & Plants with Lowell's sets. —

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